

What is claimed is:

1. An imaging device comprising:
 - a monolithic semiconductor integrated circuit substrate;
 - a focal plane array of pixel cells, each one of said pixel cells comprising,
 - a photogate overlying said substrate capable of accumulating photo-generated charge in an underlying portion of said substrate, and
 - a charge coupled device section formed on said substrate adjacent said photogate having a sensing node and at least one charge coupled device stage capable of transeferring charge from said underlying portion of the substrate to said sensing node.